



```

chain nodes :
  2 3 4 5 6 7 8 9 10 11 12 13 14 15 21 22 23 24 25 27 28 29 30 31 32 33
  35 36 40 55 56 57 58 59 60
ring nodes :
  45 46 47 48 49 50 51 52 53 54
chain bonds :
  2-3 2-4 5-6 5-7 7-8 7-9 10-11 12-13 13-14 13-15 21-48 22-23 22-24 22-25 25-27
  25-28 28-29 30-31 30-32 32-33 32-35 35-36 40-53 45-57 46-56 47-55 51-59 52-58
  54-60
ring bonds :
  45-46 45-50 46-47 47-48 48-49 49-50 49-51 50-54 51-52 52-53 53-54
exact/norm bonds :
  5-7 7-8 12-13 13-14 21-48 22-23 22-24 22-25 25-27 28-29 30-31 30-32 32-33 35-36
  40-53
exact bonds :
  2-3 2-4 5-6 7-9 10-11 13-15 25-28 32-35 45-57 46-56 47-55 51-59 52-58 54-60
normalized bonds :
  45-46 45-50 46-47 47-48 48-49 49-50 49-51 50-54 51-52 52-53 53-54

```

G1:O,NH

G2:[*1],[*2],[*3],[*4]

G3:H,Ak

G4:[*5],[*6]

Match level :

```

2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS
12:CLASS 13:CLASS 14:CLASS 15:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS
27:CLASS 28:CLASS 29:Atom 30:CLASS 31:CLASS 32:CLASS 33:CLASS 35:CLASS 36:Atom
40:CLASS 45:CLASS 46:CLASS 47:CLASS 48:Atom 49:Atom 50:Atom 51:Atom 52:Atom 53:Atom
54:Atom 55:CLASS 56:CLASS 57:CLASS 58:CLASS 59:CLASS 60:CLASS

```

